



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

BOTANICAL GAZETTE

THE
BOTANICAL GAZETTE

EDITORS:

JOHN MERLE COULTER AND CHARLES REID BARNES

VOLUME XLII

JULY—DECEMBER, 1906

WITH THIRTY PLATES AND NINETY-FIVE FIGURES

CHICAGO, ILLINOIS

PUBLISHED BY THE UNIVERSITY OF CHICAGO

1906

PRINTED AT
The University of Chicago Press
CHICAGO

TABLE OF CONTENTS.

	PAGE
On Cretaceous Pityoxyla (with plates I and II) <i>E. C. Jeffrey and M. A. Chrysler</i>	I
A study of the vegetation of the mesa region east of Pike's Peak: The Bouteloua formation (with map and thirteen figures) - - - - -	<i>H. L. Shantz</i> 16, 179
Contributions from the Rocky Mountain herbarium. VII - - - - -	<i>Aven Nelson</i> 48
The nascent forest of the Miscou beach plain. Contributions to the ecological plant geography of the Province of New Brunswick. No. 4 (with fourteen figures) - - - - -	<i>W. F. Ganong</i> 81
The development and anatomy of <i>Sarracenia purpurea</i> . Contributions from the Botanical Laboratory of the Johns Hopkins University. No. 5 (with plates III-V) - - - - -	<i>Forrest Shreve</i> 107
On the importance of physiologically balanced solutions for plants - - - - -	<i>W. J. V. Osterhout</i> 127
The appressoria of the anthracnoses. Contributions from the Hull Botanical Laboratory. LXXXIV (with seven figures) - - - - -	<i>Heinrich Hasselbring</i> 135
Differentiation of sex in thallus gametophyte and sporophyte (with plate VI and three figures) <i>Albert Francis Blakeslee</i>	161
Cortinariu as a mycorhiza-producing fungus (with one figure) - - - - -	<i>C. H. Kauffman</i> 208
A new fungus of economic importance (with three figures) - - - - -	<i>Ralph E. and Elizabeth H. Smith</i> 215
The development of <i>Agaricus campestris</i> (with six plates) - - - - -	<i>George F. Atkinson</i> 241
Rôle of seed coats in delayed germination. Contributions from the Hull Botanical Laboratory. LXXXV (with four figures) - - - - -	<i>William Crocker</i> 265
Undescribed plants from Guatemala and other Central American Republics. XXVIII - - -	<i>John Donnell Smith</i> 292
A bacterial disease of oleander: <i>Bacillus Oleae</i> (Arcang.) Trev. (with four figures) - - -	<i>Clayton O. Smith</i> 301
The ovule and female gametophyte of Dioon. Contributions from the Hull Botanical Laboratory. LXXXVI (with nine figures and plates XIII-XV) <i>Charles J. Chamberlain</i>	321

	PAGE
Temperature and toxic action (with thirty-three charts) - - - - -	<i>Charles Brooks</i> 359
The embryogeny of some Cuban Nymphaeaceae (with plates XVI-XVIII) - - - - -	<i>Melville Thurston Cook</i> 376
The life history of <i>Polysiphonia violacea</i> . Contributions from the Hull Botanical Laboratory. LXXXVII (with three figures and plates XIX-XXVIII) - - - - -	<i>Shigeo Yamanouchi</i> 401
The morphology of the ascocarp and spore-formation in the many-spored asci of <i>Thecotheus Pelletieri</i> (with plates XXIX and XXX) - - - - -	<i>James Bertram Overton</i> 450
BRIEFER ARTICLES—	
Anthoceros and its Nostoc colonies - - -	<i>George J. Peirce</i> 55
Distribution and habits of some common oaks - - -	<i>E. J. Hill</i> 59
Nereocystis Luetkeana (with one figure) - - -	<i>Theodore C. Frye</i> 143
Two new species from Northwestern America - - -	<i>J. M. Greenman</i> 146
CURRENT LITERATURE - - - - -	60, 148, 222, 311, 393, 493
For titles of books reviewed see index under author's name and Reviews.	
Papers noticed in "Notes for Students" are indexed under author's name and subjects.	
NEWS - - - - -	79, 160, 239, 319, 400, 503

DATES OF PUBLICATION

No. 1, July 28; No. 2, August 30; No. 3, October 2; No. 4; October 23;
No. 5, November 30; No. 6, Dec. 22.

ERRATA

- Vol. 41: p. 394, legend, for *fig. 3*, read *fig. 4*.
P. 16, line 17, for 15^{cm} read 25^{cm}.
P. 17, line 1, for 15^{cm} read 25^{cm}.
P. 21, line 3, for 1880^m read 2000^m.
P. 32, line 11, for (*fig. 6*) read (*fig. 7*).
P. 66, line 20, for WEIS MAN read WEISMANN.
P. 141, line 15, add Nov. 15.
P. 164, line 11 from bottom, for concluding read including.
P. 165, line 10, for dioecious read monoecious.
P. 308, line 10, for some read deeper colonies.
P. 308, line 20, for boullion read bouillon.
P. 312, line 15, for ROBERTSON read ROBINSON.